

STIC Biotechnology Systems Branch

RAW SEQUENCE LISTING **ERROR REPORT**

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/S93,659
Source: IFWP
Date Processed by STIC: 9/29/06

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE **CHECKER VERSION 4.4.0 PROGRAM**, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/ebc/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 01/14/05):
U.S. Patent and Trademark Office, Mail Stop Sequence, Customer Window, Randolph Building, 401 Dulany Street, Alexandria, VA 22314

Revised 01/10/06

Raw Sequence Listing Error Summary

ERROR DETECTED

SUGGESTED CORRECTION

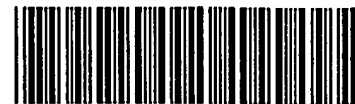
SERIAL NUMBER:

10593659

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

- 1 Wrapped Nucleics The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."
- 2 Invalid Line Length The rules require that a line not exceed 72 characters in length. This includes white spaces.
- 3 Misaligned Amino The numbering under each 5th amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.
- 4 Non-ASCII The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.
- 5 Variable Length Sequence(s) contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.
- 6 PatentIn 2.0 A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) . Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.
- 7 Skipped Sequences Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence:
(OLD RULES) (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
 (i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)
 (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
 This sequence is intentionally skipped

Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.
- 8 Skipped Sequences Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence.
(NEW RULES) <210> sequence id number
 <400> sequence id number
 000
- 9 Use of n's or Xaa's Use of n's and/or Xaa's have been detected in the Sequence Listing.
(NEW RULES) Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present.
 In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.
- 10 Invalid <213> Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or
Response scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or
 is Artificial Sequence
- 11 Use of <220> Sequence(s) missing the <220> "Feature" and associated numeric identifiers and responses.
 Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or
 "Unknown." Please explain source of genetic material in <220> to <223> section.
 (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)
- 12 PatentIn 2.0 Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file,
"bug" resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence
 listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.
- 13 Misuse of n/Xaa "n" can only represent a single nucleotide; "Xaa" can only represent a single amino acid



IFWP

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/593,659

DATE: 09/29/2006

TIME: 09:05:50

Input Set : A:\21412YP SL 9 21 06.TXT

Output Set: N:\CRF4\09292006\J593659.raw

4 <110> APPLICANT: Hardwick, James;
 5 Dai, Hongyue;
 6 Lamb, John R.
 7 Sepp-Lorenzino, Laura;
 8 Severino, Michael E.;
 9 Zhang, Chunsheng
 11 <120> TITLE OF INVENTION: Method and Biomarkers for Detecting
 12 Tumor Endothelial Cell Proliferation
 15 <130> FILE REFERENCE: 21412YP
 C--> 17 <140> CURRENT APPLICATION NUMBER: US/10/593,659
 C--> 17 <141> CURRENT FILING DATE: 2006-09-21
 17 <150> PRIOR APPLICATION NUMBER: PCT/US2005/009874
 18 <151> PRIOR FILING DATE: 2005-03-24
 20 <150> PRIOR APPLICATION NUMBER: 60/556,645
 21 <151> PRIOR FILING DATE: 2004-03-26
 23 <160> NUMBER OF SEQ ID NOS: 22
 25 <170> SOFTWARE: FastSEQ for Windows Version 4.0
 27 <210> SEQ ID NO: 1
 28 <211> LENGTH: 21
 29 <212> TYPE: DNA
 30 <213> ORGANISM: Primer
 32 <400> SEQUENCE: 1
 33 gacagagtcc gaatgcatgc t
 35 <210> SEQ ID NO: 2
 36 <211> LENGTH: 20
 37 <212> TYPE: DNA
 38 <213> ORGANISM: Primer
 40 <400> SEQUENCE: 2
 41 tgccggtctg gagaaatacc
 43 <210> SEQ ID NO: 3
 44 <211> LENGTH: 27
 45 <212> TYPE: DNA
 46 <213> ORGANISM: Probe
 48 <400> SEQUENCE: 3
 49 ccctgtgatt ctaaccatgg ccttctc
 51 <210> SEQ ID NO: 4
 52 <211> LENGTH: 24
 53 <212> TYPE: DNA
 54 <213> ORGANISM: Primer
 56 <400> SEQUENCE: 4
 57 cggttcttat caggtctata ggat
 59 <210> SEQ ID NO: 5
 60 <211> LENGTH: 20

Does Not Comply
 Corrected Diskette Needed
 (pg. 1-2)

21

Invalid Response

Invalid Response

Invalid Response

Same error

↑ see item #10

On error summary sheet

← mandatory,
 20
 <213> response
 CAN only be
 27
 either Artificial
 Unknown or
 24
 genus/species.

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Input Set : A:\21412YP SL 9 21 06.TXT

Output Set: N:\CRF4\09292006\J593659.raw

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 67 <210> SEQ ID NO: 6
 68 <211> LENGTH: 24
 69 <212> TYPE: DNA
 70 <213> ORGANISM: Probe
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 80 <400> SEQUENCE: 7
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 83 <210> SEQ ID NO: 8
 84 <211> LENGTH: 20
 85 <212> TYPE: DNA
 86 <213> ORGANISM: Primer
 88 <400> SEQUENCE: 8
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 91 <210> SEQ ID NO: 9
 92 <211> LENGTH: 22
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 123 <210> SEQ ID NO: 13
 124 <211> LENGTH: 2366
 125 <212> TYPE: DNA

20

24

22


20


22

18

19

27

 Same
 errors

 See item
 #10 on
 error
 summary
 sheet.

RAW SEQUENCE LISTING

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TIME: 09:05:50

Input Set : A:\21412YP SL 9 21 06.TXT

Output Set: N:\CRF4\09292006\J593659.raw

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128 <400> SEQUENCE: 13

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131 ttgcgagcct gttcctctgc gccttggtgg cgaactctga aggtggcagt gaacttgaag 180
132 cttctgatga atcaaactgt ggctgtcaga acggaggagt atgtgtgtcc tacaagtact 240
133 tctccagcat tcgaagatgc agctgcccaa agaaattcaa aggggagcac tgtgagatag 300
134 atacatcaaa aacctgctat catggaaatg gtcaatctta ccgaggaaaag gccaatactg 360
135 acaccaaagg ccggccctgc ctggcctgga attcaccgcg tgctcttcag caaacctaca 420
136 atgctcacag atccgatgct cttagcctag gcctggggaa acacaattac tgcaggaaac 480
137 ccgacaacca gaggcgaccc tgggtgctat tgcaaattgg cctaaagcag tttgtccaag 540
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156 ccaggatgga aatcaatcct gactcaagat gaatagatgg ggagtgtgtc ttttatggac 1680
157 taaagccatc tgcagtttaa aaacccaagt gtaggaggag agttgggtcc cctaattggg 1740
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165 ttcacttttt atatagatgt ccccttctct gccagttacc attttttttt ttttttttac 2220
166 taattagcct agttcatcca atcctcactg ggtggggtaa gggccactca tatacttaat 2280
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170 <210> SEQ ID NO: 14

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172 <212> TYPE: DNA

173 <213> ORGANISM: Homo Sapien

175 <400> SEQUENCE: 14

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DATE: 09/29/2006

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Output Set: N:\CRF4\09292006\J593659.raw

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179 caatgaactt catcaagttc catcgaactg tgactgtcta aatggaggaa catgtgtgtc 240
180 caacaagtac ttctccaaca ttactgggtg caactgcccc aagaaattcg gagggcagca 300
181 ctgtgaaata gataagtcaa aaacctgcta tgaggggaaat ggtcactttt accgaggaaa 360
182 ggccagcact gacaccatgg gccggccctg cctgccctgg aactctgcca ctgtccttca 420
183 gcaaacgtac catgccaca gatctgatgc tcttcagctg ggcctgggga aacataatta 480
184 ctgcaggaac ccagacaacc ggaggcgacc ctgggtgctat gtgcaggtgg gcctaaagcc 540
185 gcttgtccaa gagtgcattg tgcatgactg cgcagatgga aaaaagccct cctctcctcc 600
186 agaagaatta aaatttcagt gtggccaaaa gactctgagg ccccgcttta agattattgg 660
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213 catccaatcc tctactgggtg ggggtaggac cactcctgta cactgaatat ttatatttca 2280
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215 tgatgaaaaa aaaaaaaaaa 2360
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219 <212> TYPE: DNA
220 <213> ORGANISM: Rattus
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225 caccatcaca gacaccaca gaagtttggt ccctagatga ttctaggtcc tgtggagttg 180
226 acaagattga ccatcacgct ctacgaatc ggggtgaagta aacaccaccg ttgtctccat 240
227 ggaaatgctt aactacggct tgctagtaag gactccagac tccaaagagg ccacaccatg 300
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DATE: 09/29/2006

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231 accaacgcag agcgcaagtc cctgtcgaac agtttagagg aagccaaaaa gaagaaagag 540
232 ggtgctctag atgacaccag ggattctgaa atgaagctga aggctttccc ggaagtgtgt 600
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257 <212> TYPE: DNA

258 <213> ORGANISM: Homo Sapien

260 <400> SEQUENCE: 16

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276 acttccacgc catgttccag cccttccttg agatgataca cgaggctcag caggccatgg 960
277 acatccactt ccatagcccg gccttcagc acccgccaac agaattcata cgagaaggcg 1020
278 acgatgaccg gactgtgtgc cgggagatcc gccacaactc cacgggctgc ctgcggatga 1080
279 aggaccagtg tgacaagtgc cgggagatct tgtctgtgga ctgttccacc aacaaccctt 1140

```

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/593,659

DATE: 09/29/2006

TIME: 09:05:51

Input Set : A:\21412YP SL 9 21 06.TXT

Output Set: N:\CRF4\09292006\J593659.raw

L:17 M:270 C: Current Application Number differs, Replaced Current Application No

L:17 M:271 C: Current Filing Date differs, Replaced Current Filing Date